

Upper Air Reanalysis

Module 7

Objective

Given computer analyzed upper air weather charts, reanalyze the charts to the satisfaction of the evaluator as indicated by a Go/No Go checklist.

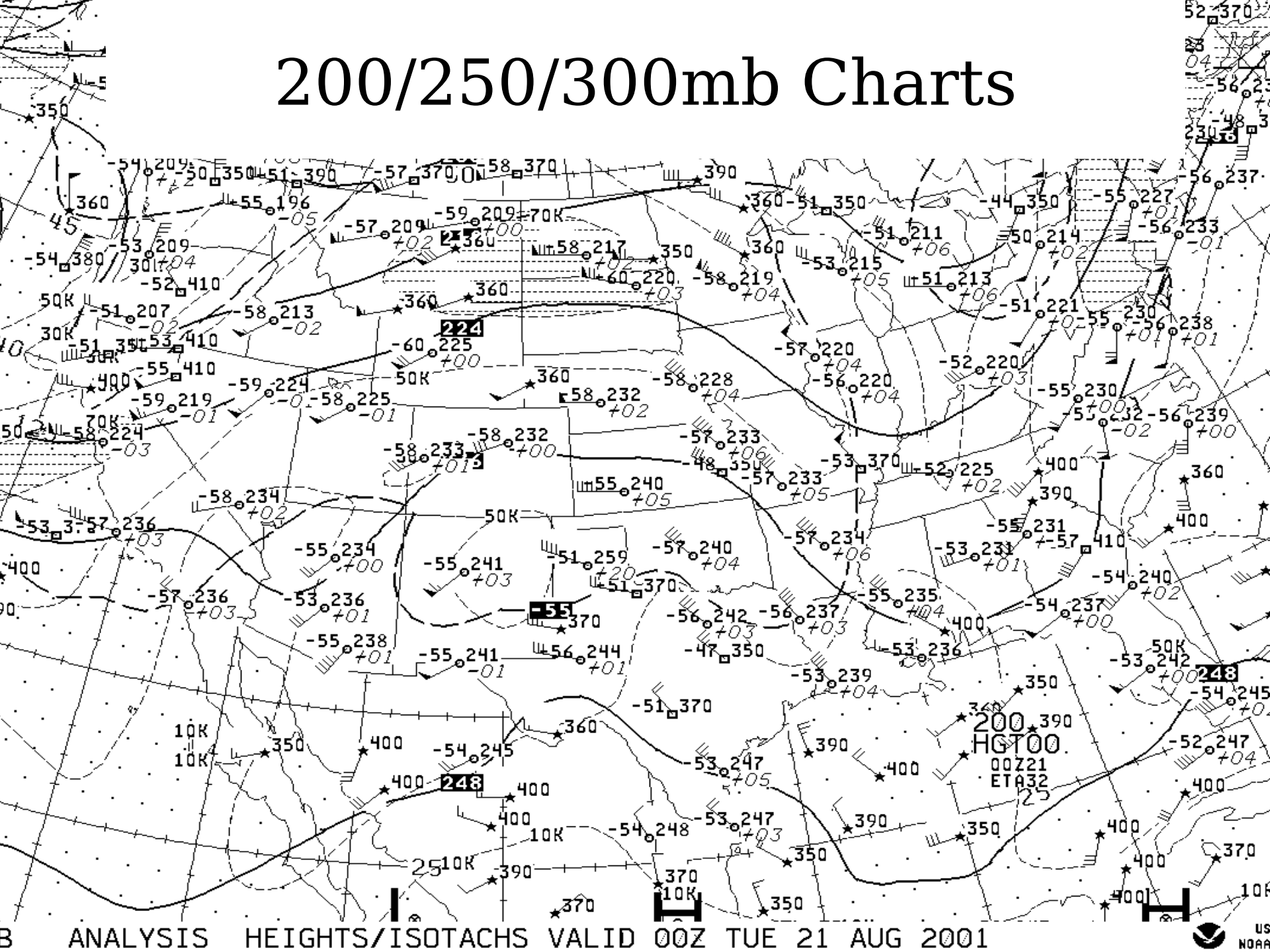
Reanalysis

- General Information
 - Why reanalyze?
 - Benefits

Reanalysis Process

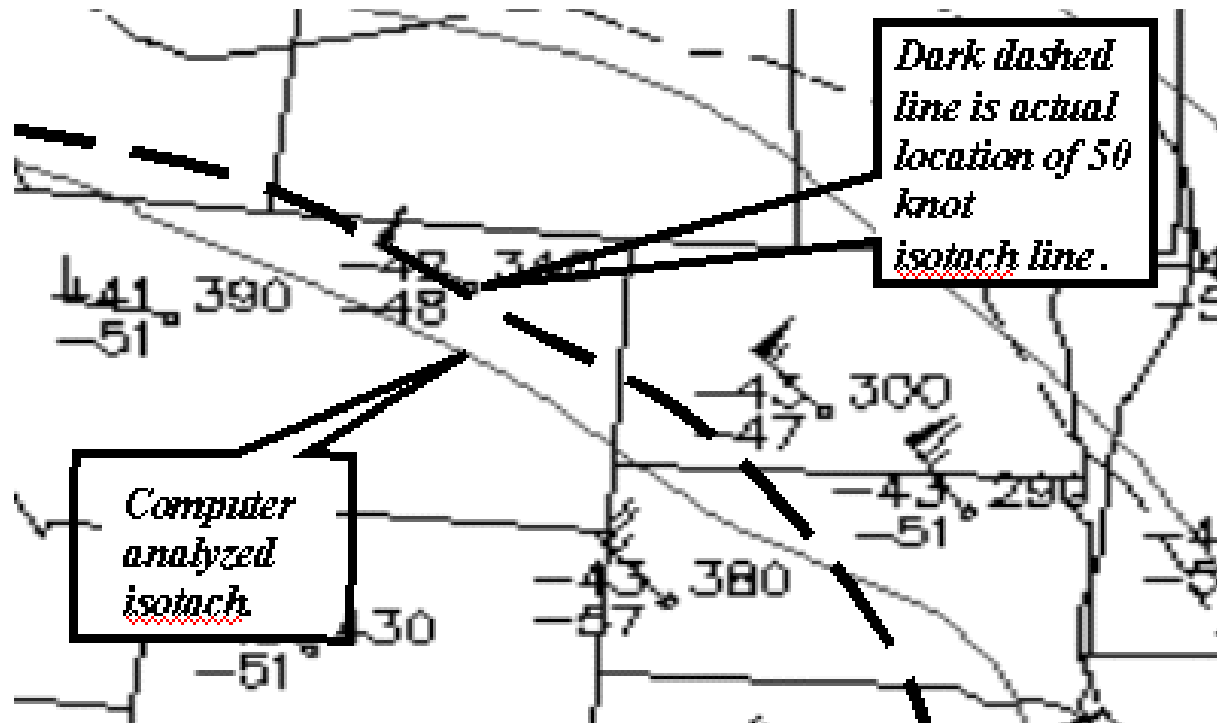
- Pre-analysis
- Reanalysis

200/250/300mb Charts



ANALYSIS HEIGHTS/ISOTACHS VALID 00Z TUE 21 AUG 2001

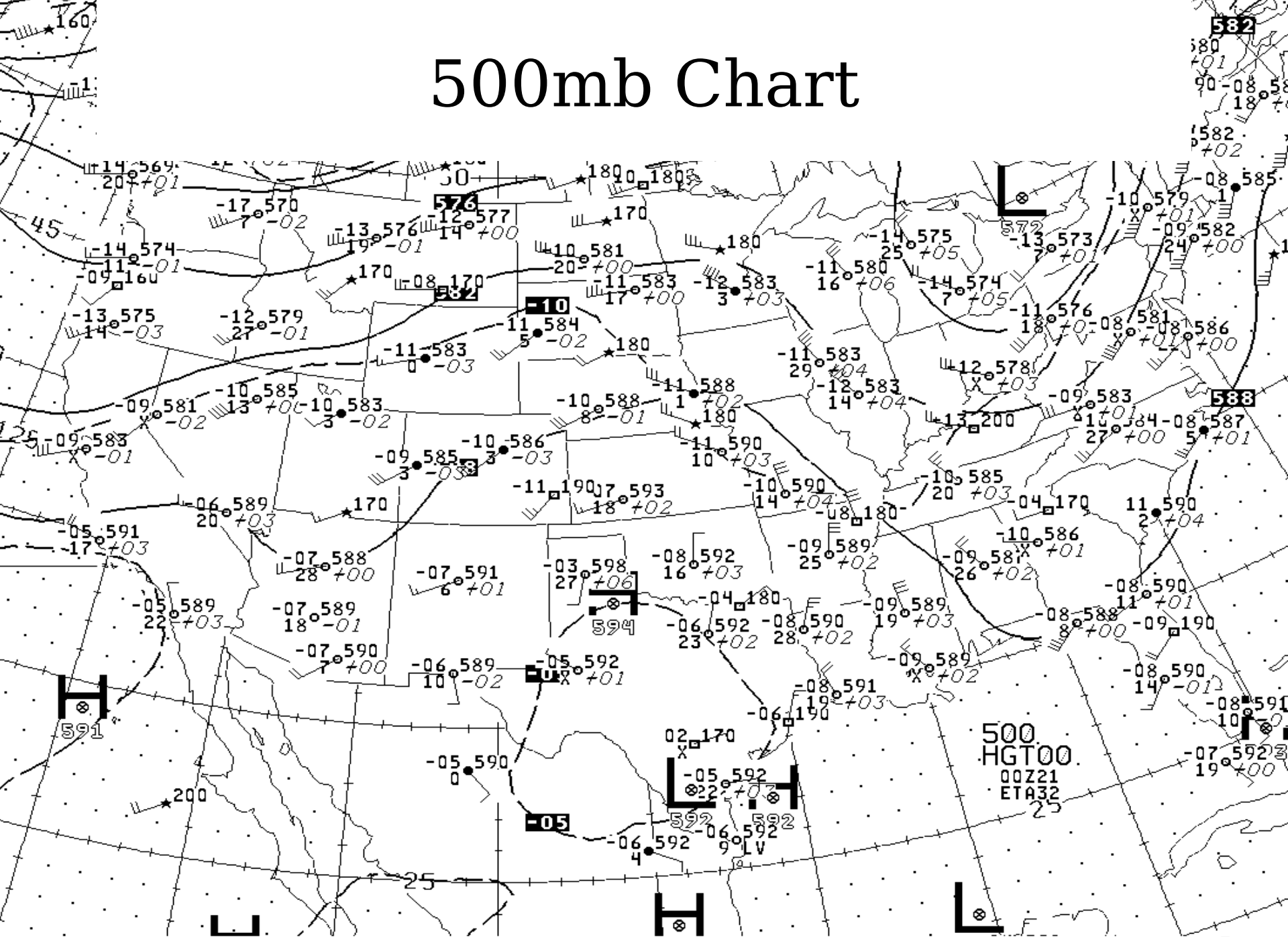
Computer Isotach Analysis Vs. Reanalysis



500, 700, 850 Mb Charts

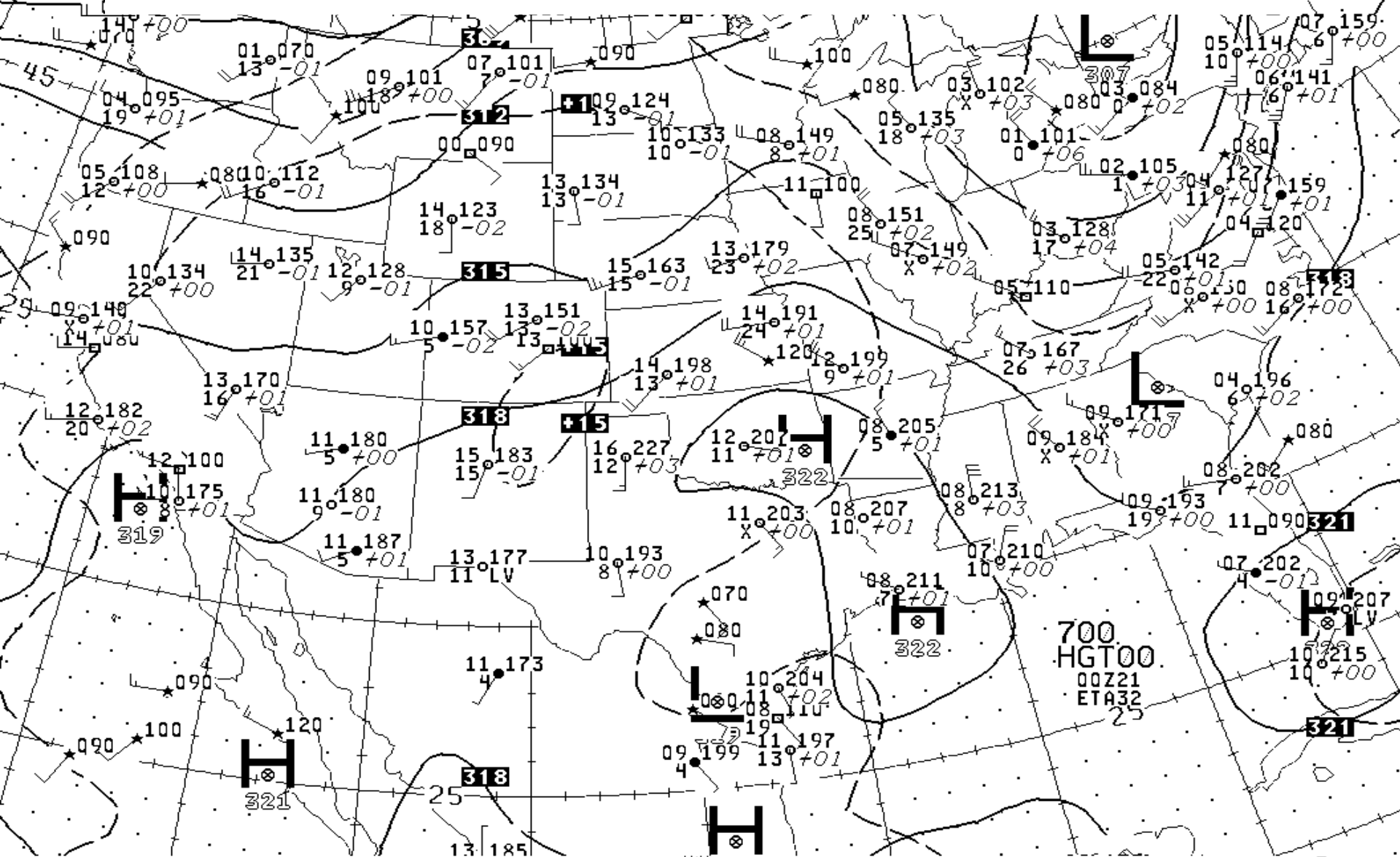
- **Contours.**
- **Troughs and Ridges.**
- **Reanalyze for height centers.**
- **Mislabeled.**
- **Isotherms.**

500mb Chart



ANALYSIS HEIGHTS/TEMPERATURE VALID 00Z TUE 21 AUG 2001

700mb Chart



ANALYSIS HEIGHTS/TEMPERATURE VALID 00Z TUE 21 AUG 2001

850mb Chart

ANALYSIS HEIGHTS/TEMPERATURE VALID 00Z TUE 21 AUG 2001

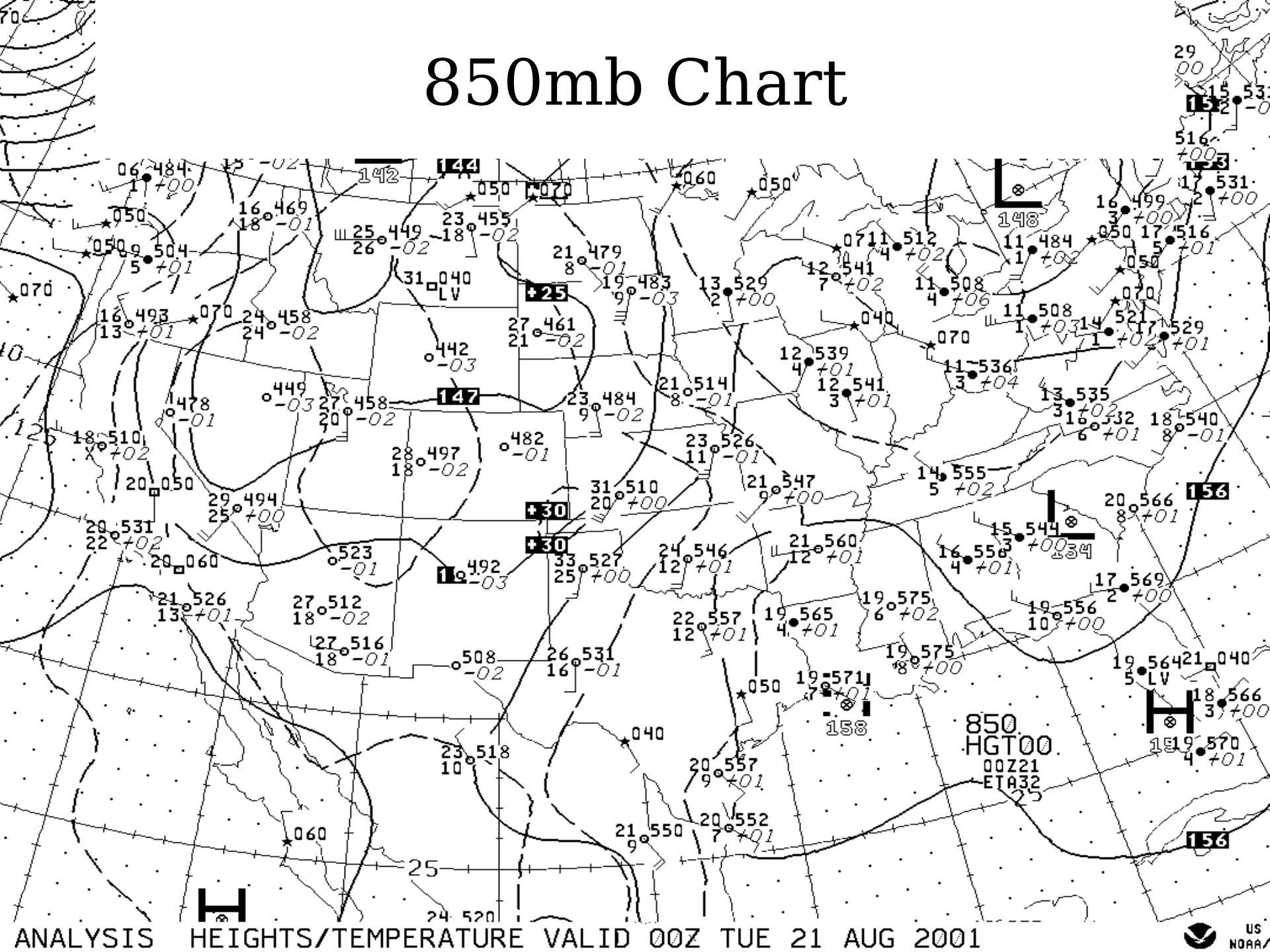
US NOAA

850mb Chart

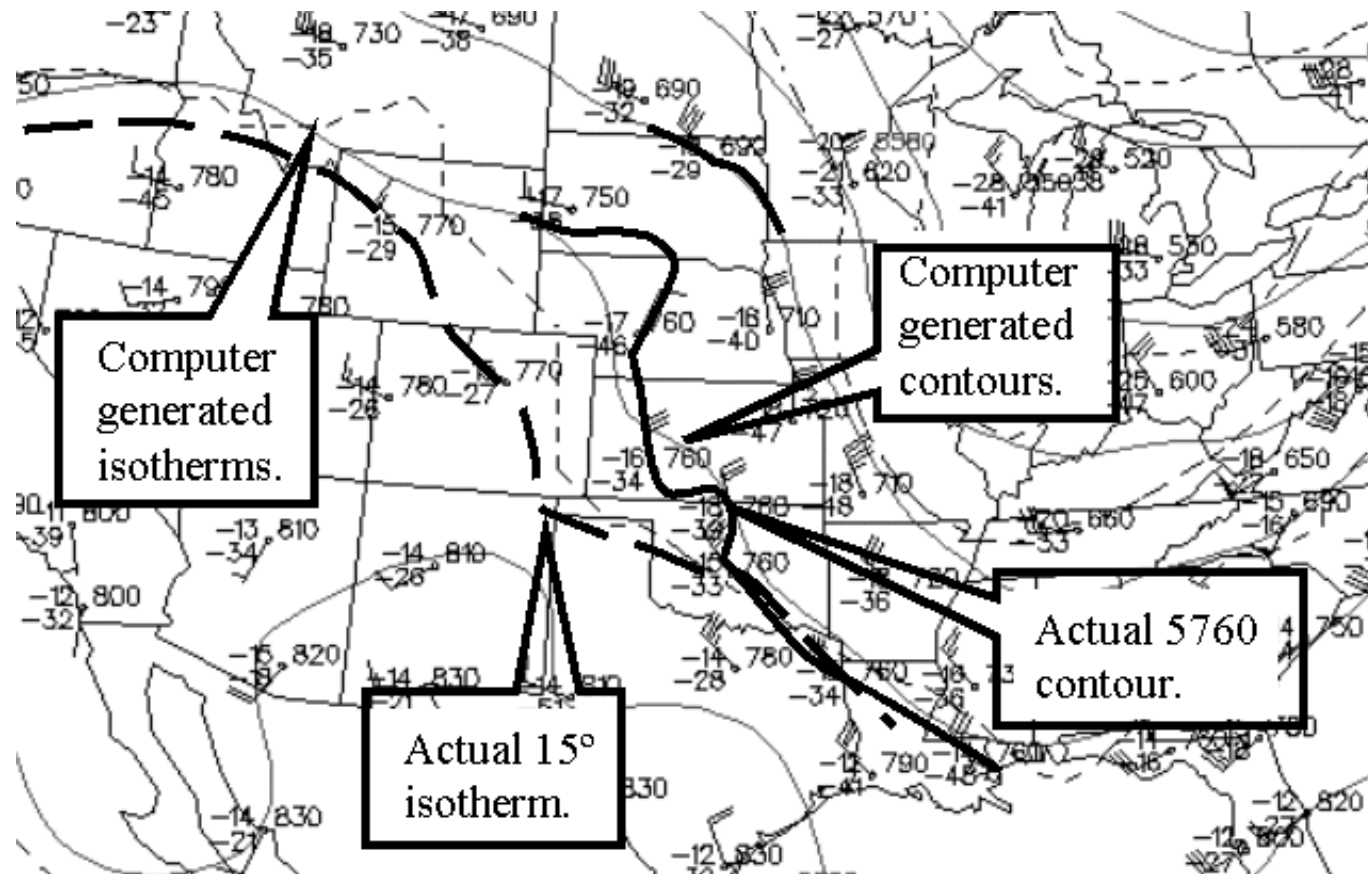
850mb Chart

ANALYSIS HEIGHTS/TEMPERATURE VALID 00Z TUE 21 AUG 2001

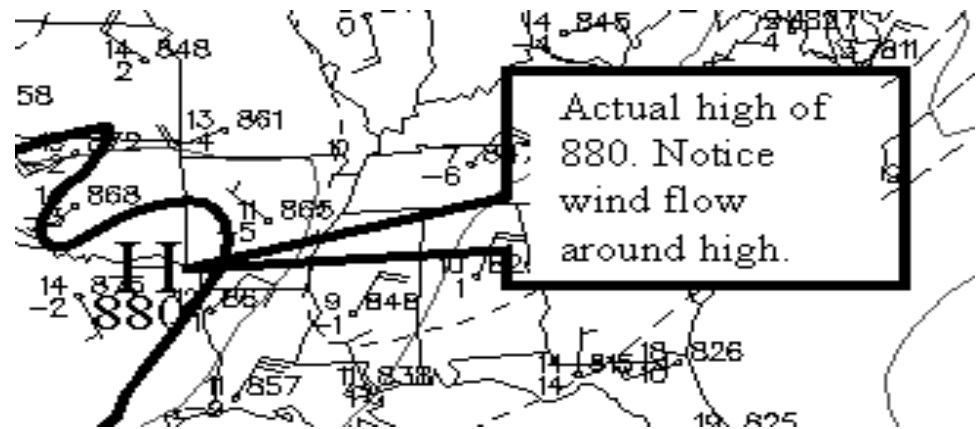
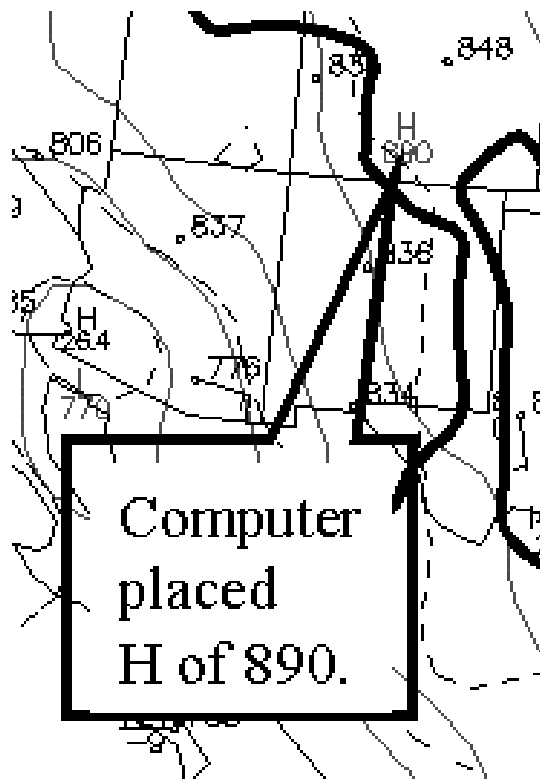
US NOAA



Contour and Isotherm Examples



Two Examples of Center Placement



Post Analysis

- Post analysis
- Harden in reanalysis

Common Errors

- Height and thermal patterns.
- Height centers
 - Centers stamped outside wind flow.
 - Center not placed at correct height value.
 - Center not labeled correctly.
- Contours
 - Incorrect interpolation
 - Kinked or crossed contours

Conclusion

Any Questions?